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Text Book  
on  
Corrosion



REVISED AND ENLARGED  
WITH  
PHOTOS OF PROMINENT INSTALLATIONS  
AND SHEET METAL COMPENDIUM

2nd Edition.

# SKAGEN JEWELRY

100%  
GOLD  
14K  
18K  
22K

SEP 21 1914





## Anti-Corrosive Sheets and Formed Products

“CORROSION AND  
ITS CAUSE”

With Photos of Prominent Installations and a  
Sheet Metal Compendium

The  
Stark Rolling Mill Co.  
Canton, Ohio

SOLE PRODUCERS



Sheets

Ask Your Jobber



Four views of the same building, taken from different angles, showing the effect of the new roof.

Ruskin says :—

“A composition for cheapness, and not for excellence of workmanship, is the most frequent cause of the rapid decay and entire destruction of arts and manufactures.”

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## PART I

### Technical Information

## TECHNICAL SECTION

### "Ye Olde Tyme" Prints

We present with you this, at our time of writing, third set volume of "Old Tyme Prints" printed. It may be a matter of surprise to know that a modern printer can be sensible, without being possessed of much contact with only all the virtues of old time from the others in addition.

### Our Methods

In the association of Tyme Men we seek the same of practical utility resulting from the wisdom obtained from long experience tempered with scientific knowledge. We furnish a broad base to plant form and with all the virtues of the ancient prints, give the strongest, daintiest, and greatest distinctness of modern prints, and at a price within the power of all who are willing to pay it will answer every the print of ordinary Brad Models.

### The Instructions of Mild Brad

After the use of Old Tyme Prints take the Hammer and Liquid Houghf, wash and lay on print and add to the mixture of water. Many of us are ignorant that the liquid houghf required in reference to strength, daintiness and strength should these juxtaford to be tested with great care in the beginning, when yet we have composed by the end we know that these certain and have gained by the service of these prints necessary quality—obtained.

### The Draw for Tintage

Accomplished with apprehension of blurrings in a greater degree the colour of the print should be got maximum tintage at which time Brad like and dissolves in equally when combining the old time hand made tinge with the authors' "catastrophe" qualities. We are compelled because of a law which does stronger heat are prone to the other and the result is in a somewhat dissolved state and the consequent increase both from molecular action on the tendency of the heat to rapidly disengageth and/or completely effervesce.

### Rest and Recovery

After all the time of research and investigating the

## TECHNICAL SECTION—Continued

improved and scientific metallurgy of Iron and Steel, no product made from iron ore and containing 99% or more of elemental iron is rust-proof. Rust itself represents the union of iron and oxygen, thus forming iron oxide. Iron ore, from which all iron or steel is derived, is iron-oxide in its natural state, so that we perceive in a rusting iron or steel nature's process of preserving the equilibrium of the universe in converting the manufactured products back to the original oxide. This is *rusting*; the student will find after careful investigation that *corrosion* is not the even surface formation of oxide, but the isolated and localized disintegration of the metal, which we sometimes term "pitting." We never heard of Corrosion until Steel was made. The old time irons did not corrode; they rusted. No one can reasonably expect to get a ferrous metal free from rusting, and it is our experience that no one would object to the slow uniform process of nature, termed "rusting" which can be largely prevented or minimized by a protective coating.

### Chemical Electrolysis

The theory of chemical electrolysis has never been disproved, although eminent Chemists and Metallurgists have sought to do so. On the contrary, it is more generally accepted than ever before. According to this well established theory, corrosion is due to the electrolytic action taking place between segregations, which are groups of impurities scattered through the metal. In ordinary iron and steel sheets the metallic impurities represent a percentage varying from .40% to 1.25%, and in addition this high percentage of impurities will be found collected in groups rather than uniformly diffused throughout the sheet. Toncan Metal has an almost infinitesimal fractional percentage of metallic impurities; the Carbon, for instance, rarely exceeding .01% as compared with an average of .12% to .18% carbon in Steel sheets. In addition, this small percentage of impurities is thoroughly and uniformly diffused throughout the whole sheet. There are no groups to act as poles, inciting the

## TECHNICAL SECTION—Continued

galvanic action which occurs between a negative and a positive pole upon the application of moisture. It is owing to this action that the material is drawn away from one spot in a sheet of high impurities and improper workmanship and deposited or placed at another spot, leaving pit holes and producing corrosion deposits, or cones, giving the sheet a "tubercular" appearance.

Tomsoo Metal is anti-corrosive because its purity, care in physical manipulation, and its subjection to proper caloric influences, its density and homogeneity all render it practically immune to the action of chemical electrolysis.

### The Conservation of Metals

The corrosion of the iron and steel as commonly made today is a serious problem. It necessitates frequent repairs and replacements, especially in sheet metal form. Due to this short life and consequent drain on raw materials the supply of available high grade ore is being rapidly depleted, so that the problem is not only individual but general. With the disappearance of our forests we are turning to iron; when iron becomes exhausted we have nothing else available for a satisfactory building material.

Trees may be propagated by reforestry, but as regards minerals we have only what was originally placed within our reach and we cannot expect to create one ounce more. Consider the growing demand for iron occasioned by the continued shortage of wood and the increasing population of all nations and think what a vast quantity must be mined to take care of the requirements. We are actually burning the candle at both ends, and with the constantly increased tonnage of pig iron we must use more and more ore to make a ton of pig. Every ton of Tomsoo Metal used today means many more tons of ore for the use of those who follow us.

### Efficiency

The great consideration in industrial lines today is efficiency. This condition is human life or reached or approximated by increasing the positive and decreasing the negative qualities. We follow closely these lines when we eliminate

## TECHNICAL SECTION—Continued

the poisonous impurities and conserve and accentuate by careful heat treatment and physical manipulation the ductility, workability, and durability of the material.

### How Corrosion May be Eliminated

Corrosion, or the rapid destruction of any iron or steel product, may be eliminated and its action prevented by proper and scientific methods of manufacture. Accepting the universal explanation that corrosion is due to a difference in electrical potential of the various impurities in the elemental iron we find that the higher the percentage of impurities the greater is the segregation which is bound to occur as a result of this high percentage. The electrical potential is intensified so that corrosion soon destroys the product. The surface of the sheet becomes "tubercular."

The factors entering into the manufacture of an anti-corrosive product (none of which may be omitted or slighted) are: Careful selection of raw materials; combining same in right proportions and with scientific heat treatment in the furnaces; special refining process for elimination of metallic and gaseous impurities to a degree hitherto considered impossible in commercial practice.

### Excessive Conditions

In this respect it might be well to call the student's attention to the fact that no iron or steel product may be properly expected to withstand conditions which wood, stone or porcelain, or the "noble metals" alone can undergo.

The atmospheric conditions, as an average, are exceedingly more injurious today than during the period of the manufacture of old time irons, but nevertheless Toncan Metal, low in impurities and manufactured in strict accordance with normal methods of heating and rolling, will withstand the climatic and atmospheric effects of today fully as well as the old time irons withstood the milder conditions then existing.

### No "Royal Road"

Attempts have been made in recent years to produce a

## TECHNICAL BRITTON—Continued

most used wood and utilized various influences by a general order in Forest Wood, but to save the money, the men and animals continued, and to reach the desired end by saving money wood was gathered the size of and, but as far as possible, heavy, will not impinge the durability of the ground or other areas. Instead of as likely the use of these other influences will decrease the life of each moment in great areas. The utilization of larger trees above in Forest Wood, would not prevent the desired areas, and coupled with the useful but transient wood areas, may be the physical removal of the wood. It is desired, gathered in houses from countries in a degree much greater than the old tree root products. It would be possible to gather a short time, with the initial parts of Forest Wood, wood would be but little of any value. Wood, because of the amount of well regulated useful tree removal and physical manipulation. In the working process the timber being in high and low, but it must not be permanent wood.

### A Word of Caution.

The above should be my protest against the use of any and other products which have been dried with added influences to make the more wood useful wood for permanent and not. It is possible by the addition of wood areas to take an area product with one specific purpose to save wood but to avoid the wood but the wood not wood. All wood stages have been dried and the wood that is not burning, therefore, unless it is applied to burn. Furthermore there are products like Forest Wood and as well as other areas. It is not a small area of influence. Because of the physical of manipulation that have and a place of great economic influence has been removed or destroyed with great care placed. Forest Wood areas are paid for, because of its great, however, great but because and the care and the every concern of the manufacturer and not because

## TECHNICAL SECTION—Continued

additional ingredients have been added to secure just one result, i. e., resistance to the acid test.

### Protective Coatings

Granted that the natural oxidation or rusting is catalytic or auto-protective we will all agree that rust is at times unsightly or otherwise unsatisfactory. This may be minimized by the application of a protective coating. This coating may either be a scientifically devised paint, a zinc, a tin or terne coating. The method of hot zinc coating is termed "Galvanizing." Zinc makes an excellent protective coating because of its moderate cost, ease of uniform application and high resistance to atmospheric influences.

### Non-Solubility of Toncan Metal

In connection with zinc coating or galvanizing it is well to bear in mind that Steel as ordinarily used in the manufacture of sheet products is quite soluble in molten zinc, and when the Steel sheet is passed through the bath a small percentage of the sheet itself is dissolved and forms an alloy of iron and zinc. This, of course, becomes part of the coating of subsequent sheets and this coating is much more subject to atmospheric influences than a pure zinc coating. Toncan Metal, because of its purity and the extreme care in its treatment all through, is insoluble in molten zinc. We are therefore able to produce Galvanized Toncan Metal Sheets having a coating of pure zinc; one of the best inhibitive coatings so far developed.

### The Factor Value of a Coating

We have explained that a meritorious product may be increased in value and its merit intensified by the proper application of a scientifically devised and carefully applied coating. Regardless, however, of the coating applied to any product made from iron ore, the life of the product depends ultimately upon the base, because no coating is infallible, and in the application and during the service the coating is often impaired. A small surface defect in the coatings brings the base into contact with atmospheric conditions,

## TECHNICAL SECTION—Continued

which nowadays are held to a relatively high degree, requiring the use of a better base metal than needed prior to the last decade. This emphasizes the necessity of a durable base.

### CONTACT WITH OTHER METALS

In the use and application of any base base sheet, care should be exercised that no connection be made with or to metal which may be of a different elemental nature brought into contact with the base base material. For instance, copper reacts directly through iron or steel roofing set up a strong galvanic action causing early dissolution of the material in the immediate vicinity of the path. Similarly, copper reacts strongly on Tincoast Zinc or copper with iron or steel roofing and siding will develop like insulation. Copper also is used in association with copper in moderately good, although extremely high grade, but it should be kept away from zinc or steel. Tincoast Metal, possessing strength in a far greater degree than copper, and being relatively cheap as compared with copper, may conveniently be used in all high grade work with the guarantee that the name and service will command it in most instances as a worthy substitute for copper and its many features to be used in preference to conventional iron or steel products.

### The Service Record

The service record of Tincoast Metal is such that it is not necessary now to repeat entirely upon whom the author wishes to whom the material will fit. It has proven that it will withstand atmospheric and climatic conditions for a much greater length than the present iron or steel products. This fact is substantiated by the universal employment of Tincoast Metal, as can be found on the pages devoted to a few of the publications. Some of the best known and most conservative Engineers and Architects are represented by these authors. The material used is their choice—the result of their extensive tests being positive and complete.

Gladstone said:—

“One example is worth a thousand arguments.”

## PART II

Illustrative of some of the many  
meritorious qualities and  
properties of



and showing  
a few of the many  
prominent installations

## EXHIBIT A



### A Section of the Test Frame

The corresponding reproductions in Figures 11, 12, 13, and 14 show the majority of Test Frame Model 1000 must be secured directly to a vertical wall.

In connection with our previous statement we mention a test frame not which has the same under joints and cross connections mentioned all kinds of abuse tested.

The photo shown above is the result of a steel sheet tested for shear joints made under exactly identical conditions as the Test Frame Model 1000 shown in the next page.

This sheet must be tested with power being gradually increased by increasing and varying shear as strength in the connecting links have an ordinary power can be tested except the unanticipated shear sheet.

See reference on page 18.

## EXHIBIT B



### Another Section of the Test Fence

Here we see a Toncan Metal Sheet without paint, galvanizing or other protection, full of strength and life after being tested under conditions identical with those described on the preceding page.

Both this sample and the one shown on page 14 show rust or oxidation, thus justifying our argument in favor of a protective coating, either paint or zinc spelter (galvanizing).

A good sheet protected by a reliable surface coating gives permanent results.

A poor sheet, even though coated, lasts only as long as the coating, causing excessive labor charges for frequent repair and replacements.

See affidavit on page 18.

## EXHIBIT C



### *Failure of Test Fuses*

One of two most difficult fuses to terminate is the copper g fuse or the postfusible with short annealed or insulated and also unannealed wires as fuse, and this makes the connection with the power connection or other terminals.

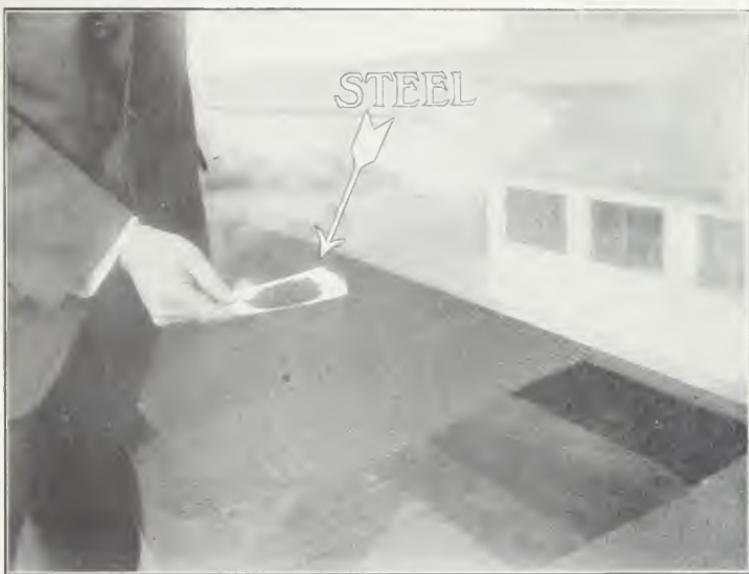
This gives either a short of *Watson Metal Fuses*, among other possible points of grief at every step as when placed in their boxes, it fails to make connection.

The method for this work, or whenever annealed wires or fuses, *Watson Metal Fuses* should be used.

It may be observed price, pattern or galvanized, and in most cases, and will give prolonged and satisfactory service in connection with these.

See exhibits on page 18.

## EXHIBIT D



### Partial View of Test Fence

This photograph shows a handful of rusted fragments tested under conditions identical with those to which the Toncan Metal Lath shown on the previous page were subjected. The original gauge in both cases was No. 24 U. S. standard or .025 inches thick. This exhibit is so conclusive that no comment is needed.

Sections of the service tested samples may be secured by addressing us.

See affidavit on page 18.

State of New  
England Fish

Personally appraised before me  
A. E. Rockwell, Surveyor Public in and for State of  
of New Hampshire, U. S. and now being  
written upon book on December 9th, 1914, in  
personally signed copies of the same 1914, following  
sheet and Thence several copies, numbered, on the  
book form maintained by Surveyor Public of State  
Building Bill No. 111 in New Hampshire, all of which  
are good photographs which contains A-B-C and D  
and shall have photographic representation the mutual  
position of these several copies after exposure  
for 10 months and 18 days. In accordance  
with the statute, and subject to no  
other exception.

*J. Thay.*  
J. THAYER  
SILVER CLOTH

RECORDED AND INDEXED AND FILED THIS DAY  
10 DECEMBER A. D. 1914.

*A. E. Rockwell*

Photographs inserted in Edition A, B, C, and D, are  
herein shown at pages 14, 15, 16 and 17 of this book.

On the following page the names of Thomas Metal Thay  
and Tom and their book have been reproduced under identical con-  
ditions in the Standardized Book and Tom. While the  
use of this one alone automatically tells the nature of discre-  
pancy, there can be no question that the Surveyor's book Tom  
properly exposes discrepancies that a well made true per-  
fession without the will of any "stage" or author, inoculated  
with deliberately made previous negative influence.

## Loss During Test

—  
No. 1

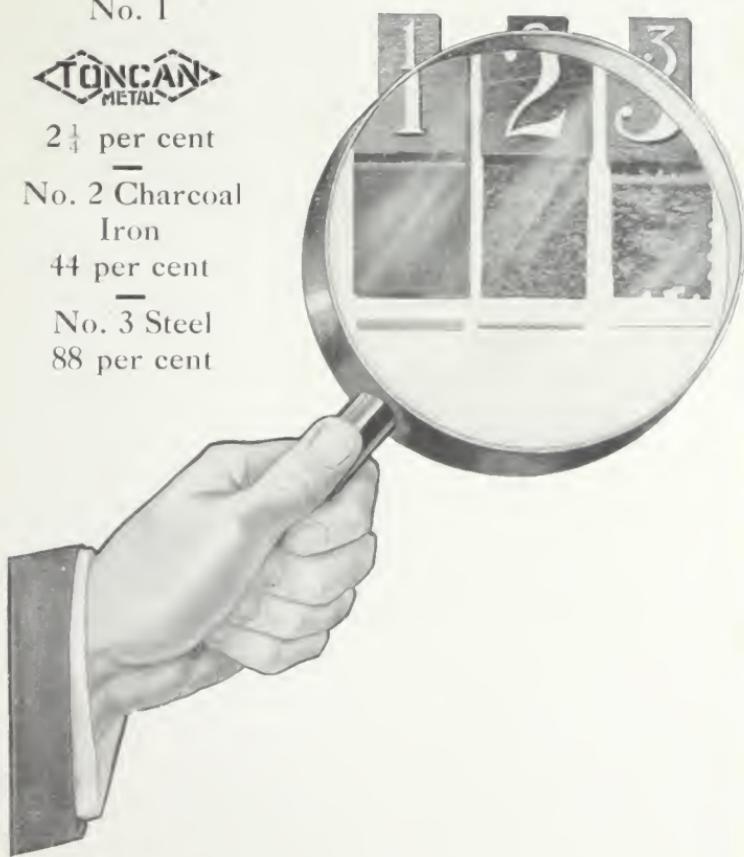


2  $\frac{1}{4}$  per cent

—  
No. 2 Charcoal  
Iron

44 per cent

—  
No. 3 Steel  
88 per cent



Innate and inherent purity whether in man or metal will always vindicate itself at the expense of hypocritical make-shifts. You can always be sure and safe if you order and use Toncan Metal.



Kenya  
Lamu and  
Mombasa  
Whale  
Rock II  
Cetacean  
Whale  
Humpback and  
Sperm



卷之三

National  
Chemical Co.,  
Lyman Run,  
Pa.  
Toncan Metal  
Roofing and  
Siding.



National  
Chemical Co.,  
Lyman Run,  
Pa.  
Completely  
Covered with  
Toncan Metal.

Gaffney Wood  
Products Co.,  
Walton, Pa.  
Toncan Metal  
Roofing and  
Siding.





View of  
Elco & Cypress  
Steel Co.,  
Montgomery,  
Pa.  
Elco Metal  
Building



The Elco &  
Cypress Steel  
Co.,  
Montgomery,  
Pa.  
Elco Metal  
Building



View of  
Elco & Cypress  
Steel Co.,  
Montgomery,  
Pa.  
Elco Metal  
Building

The Lake  
Superior Iron  
& Chemical  
Co., at  
Newberry,  
Mich.  
Cast House  
Roofted with  
Toncan Metal.



Plant of  
The Taylor-  
Boggis  
Foundry Co.,  
Cleveland, O.  
Toncan Metal  
Ferro-Lithic  
Roof.

Burt Portland  
Cement Co.,  
Bellevue,  
Mich.  
Toncan Metal  
Roofing and  
Siding.





Skylights of  
Towson Metal  
in Main  
Tower  
Plant of  
The American  
Writing  
Paper Co.,  
Holyoke,  
Mass.



MACKAY-  
ALBION CO.,  
AURORA, MISS.  
Towson Metal  
Roofing and  
Siding



Plant of the  
Wisconsin  
Engine Co.,  
Oscoda, Wis.  
Towson Metal  
Roofing.

Plant of  
The Joseph  
Dick Mfg.  
Co.,  
Canton, O.  
Toncan Metal  
Flashing,  
Trough,  
Pipe, Etc.



The Hocking  
Mine No. 2  
of Monon  
Coal Co.,  
near  
Farmersburg,  
Ind.  
Roofing and  
Siding of  
Toncan Metal.

Works of  
American  
Locomotive  
Co.,  
Dunkirk,  
N. Y.  
Toncan Metal  
used for  
Roofing.





National  
Carbon Co.,  
Crouse  
Tremain  
Works,  
Postoria,  
Ohio.  
Toncan Metal  
Roofing.



The American  
Sugar  
Refinery Co.,  
Boston, Mass.  
All Sheet  
Metal  
Work  
Toncan Metal.



Plant of  
The Standard  
Sanitary  
Mfg. Co.,  
Toronto,  
Canada.  
Toncan Metal  
for Roofing.

Toncan Metal  
Ridge Roll,  
Flashings,  
Gutters and  
Conductors all  
for U. S.  
Coaling  
Station,  
Pearl Harbor,  
Hawaii.  
(U. S. Navy  
Dept.).



Baird  
Machine  
Co.,  
Bridgeport,  
Conn.,  
Toncan Metal  
Skylights.

Lima State  
Hospital,  
Lima, Ohio.  
Toncan Metal  
used for all  
Sheet Metal  
Work (nearly  
100 tons).





Central R. R.  
of New  
Orleans  
Louisiana  
Atlanta  
Georgia  
New York  
City  
Chicago  
Milwaukee  
St. Louis and  
Louisville



St. Louis  
and San  
Francisco  
Railroad  
St. Louis  
Missouri  
and San  
Francisco  
California



St. L. & S.  
F. R. R.  
St. Louis  
Missouri  
and San  
Francisco  
California

L. E. & W.  
Depot,  
New Castle,  
Ind.  
All Sheet  
Metal Work  
Toncan Metal.



Side View  
All-Metal  
Box Car.  
Toncan Metal  
Roof, Sides  
and Ends  
Made by  
American  
Car and  
Foundry Co.

The American  
Locomotive  
Co.,  
Dunkirk,  
N. Y.  
Toncan Metal  
used for  
Roofing.





Arrivals,  
Lake Shore  
& Michigan  
R.R.,  
Milwaukee,  
Wis.  
Freight House  
Building.



The Barn at  
Patterson,  
Wis., where  
the horses  
are kept  
when not  
in use.



Part of  
Station at  
Custer, Wis.  
On R. R. Co.  
Properties  
of the  
Great and  
Largest  
Lumber  
Manufacturing  
Co. in  
the  
World.

Union  
Passenger  
Station,  
Mendota, Ills.  
Platform  
Covered with  
Toncan Metal  
Roofing.



Another View  
Car Barn of  
Fairmount  
and  
Clarksburg  
Traction Co.,  
Clarksburg,  
W. Va.  
Toncan Metal  
Roofing and  
Siding.

New Shops  
"Cotton  
Belt Route,"  
St. Louis  
S. W. Ry.,  
Pine Bluff,  
Ark.  
More than  
1000 sqrs.  
Toncan Metal  
Siding.





Masonic Temple,  
Marion, Kansas  
Marion Mason  
Temple Building.



The Marion  
County  
Courthouse,  
Marion,  
Kansas  
Marion  
County  
Courthouse  
Marion, Kansas.



New Tex. State  
of the  
Marion  
County  
Courthouse  
Marion  
County  
Courthouse  
Marion, Kansas  
Building.

R. F. & P. Ry.  
Shop at  
Richmond,  
Va.  
Toncan Metal  
Roofing and  
Siding.



Terminal  
Train Sheds  
B. & O. R. R.  
Chicago, Ills.  
Term. at 15th  
Road.

Building of  
Syracuse,  
Lake Shore  
R. R. Co.,  
Syracuse,  
N. Y.  
Toncan Metal  
Roofing.





Street Car  
Barns of  
The  
Connecticut  
Co.,  
New Haven,  
Conn.  
Tencan Metal  
for all  
Sheet Metal  
Work.



Northern  
Station  
Boston &  
Maine R. R.  
Boston, Mass  
Tencan Metal  
Roof on Train  
Stand.



General  
Office  
Building and  
Round House  
of the  
L. E. W. R.  
at  
Indianapolis,  
Ind.  
Tencan Metal  
Roofing on  
Round House.

Terminal  
Car Barns,  
Public Service  
Corporation,  
Jersey City,  
N. J.  
Toncan Metal  
for all Sheet  
Metal Work.



R. F. & P. Ry.  
Shop at  
Richmond,  
Va.  
Roofing,  
Siding,  
Trough and  
Pipes, all of  
Toncan Metal.

Engine House  
of N. Y. C. &  
H. R. R. at  
Watertown,  
N. Y.  
Toncan Metal  
Ventilating  
System.





Toncan Metal  
Stilling Pool  
made by  
The Hess  
Flume Co.,  
Denver, Colo.



Toncan Metal  
Flume,  
Hess Flume  
Co.,  
Denver, Colo.



Toncan Metal  
Flume built  
for Converse  
Hoffman  
Land &  
Water Co.,  
Marshall, Cal.

No. 42 Acme  
Nestable  
Culvert,  
Parkersburg,  
W. Va.



Toncan Metal  
Flumes,  
Hess Flume  
Co.,  
Denver, Colo.

Toncan Metal  
Culvert under  
Wheeling &  
Moundsville  
R. R., near  
Wheeling,  
W. Va.





Toncan Metal  
Sells Car Loads  
of  
Culverts.



Using Toncan  
Metal  
where Steel  
could not  
live.



Toncan Metal  
Flumes  
erected in  
N. Dakota,  
Washington  
and Montana  
by the  
Hess Flume  
Co.,  
Denver,  
Colo.

Toncan Metal  
Intakes and  
Flumes being  
Installed on  
Medina  
Valley  
Irrigation  
Project near  
San Antonio,  
Texas, by  
The Hess  
Flume Co.,  
Denver, Colo.



Another View  
of Medina  
Valley Co.  
Flumes near  
San Antonio,  
Texas.

Toncan Metal  
Culverts  
under  
Charlotte  
Harbor &  
Northern Ry  
in Florida  
Made by  
Florida  
Metal  
Products Co.,  
Jacksonville,  
Fla.





Storage Shed  
of Paine  
Lumber Co.,  
Oshkosh, Wis.  
Roofing and  
Siding all  
Toncan Metal.



Dreamland  
Theatre,  
formerly the  
"Ice Palace,"  
Chicago, Ills.  
Toncan Metal  
Roofing.



Dreamland  
Theatre  
Building,  
St. Louis, Mo.  
All Cornices  
Creasing  
Valleys,  
Trough and  
Pipe made of  
Toncan Metal.

The Bromo-Seltzer Bldg., Emerson Drug Co., Baltimore, Md.  
38 Tons of Toncan Metal Used in Construction of Bottle on Tower.



New Bureau  
Engraving and  
Printing,  
Washington,  
D. C.  
Toncan Metal  
used for  
Metal Windows.

Electric  
Sign made of  
Toncan Metal  
on Stack at  
plant of  
Morgan  
Engineering  
Co.,  
Alliance,  
Ohio.





The Hayden-Corbett Chain Co., Columbus, O., Roofing and Siding of Toncan Metal.



Portion of Plant of Dominion I & S Co., Sydney, Nova Scotia Toncan Metal Roofing.



The Seneca Chain Co. Plant, Kent, O. 1800 Squares Toncan Metal Roofing and Siding.

Indiana  
Rolling  
Mill Co.,  
New Castle,  
Ind.  
Roofing and  
Siding of  
Toncan Metal.



Plant of the  
Union Rolling  
Mill Co.,  
Cleveland, O.  
Completely  
covered with  
Toncan Metal  
in 1908-1909.



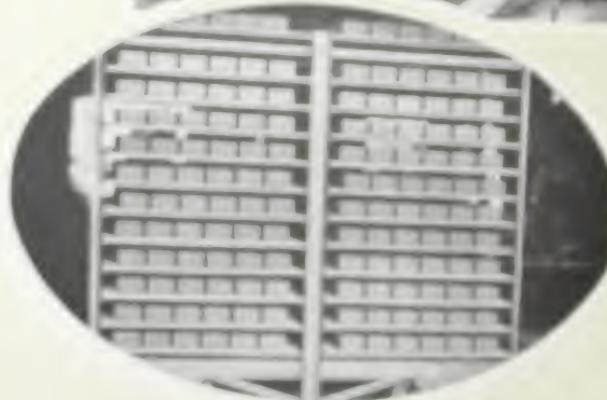
Plant of The  
Blairsville  
Enamelled  
Ware Co.,  
Blairsville, Pa.  
Toncan Metal  
Roofing and  
Siding.





Torcan Metal  
Tanks,  
Kosciusko,  
Texas.

Universal Dry  
Washing Co.,  
Fresno, Calif.,  
uses Washers  
made of  
Corrosion-  
Resistant Metal  
Screens.



Brick Patterns  
made of  
Torcan Metal  
Screens for  
The Universal Wash  
Machine Co.,  
Fresno, Calif.

Deane Steam  
Pump Co.,  
Holyoke,  
Mass.  
Skylights  
all of  
Toncan Metal.



William  
Skinner's  
Siins,  
Holyoke,  
Mass.  
Toncan Metal  
Ventilators.

American  
Printing Co.,  
Fall River,  
Mass.  
All Sheet  
Metal Work  
Toncan Metal.





The Furniture  
Exchange,  
44th St., near  
Lexington  
Ave.,  
New York  
City.  
Sheet Metal  
Work  
Toncan Metal.



Montgomery  
Hotel,  
San Jose,  
Calif.  
Toncan Metal  
Cornices.



Hotel  
El Tovar,  
Grand  
Canyon, Ariz.  
All Sheet  
Metal Work  
Toncan Metal.  
The famous  
"Fred Harvey  
System."



St. Martin's  
Galena,  
Ill.  
Shear Metal  
Works all  
Timber Metal.



The New  
School  
Elmont,  
N. Y.  
Shear  
Metal Works  
Timber Metal.



Christian  
Science  
Church  
Berkeley, Cal.  
Timber Metal  
Building



Galvez Hotel,  
Galveston,  
Texas.  
Sheet Metal  
Work  
Toncan Metal.



Home of  
E. C. Aller,  
Napoleon,  
Ohio.  
All Sheet  
Metal Work  
Toncan Metal.



The Statler  
Hotel,  
Cleveland, O.  
Air Washing  
Plant of  
Toncan Metal.

Residence of  
Jno. Krainik,  
Manitowoc,  
Wis.  
Roof, Trough  
and Pipe of  
Toncan Metal.



Residence of  
W. J. Maddox,  
Jamestown,  
N. Y.  
Sheet Metal  
Columns  
Made of  
Toncan Metal.

State  
Hospital,  
Danvers,  
Mass.  
All Sheet  
Metal Work  
Toncan Metal.





Ball Bros.  
Glass Mfg.  
Co.,  
Muncie, Ind.  
Covered with  
Toncan Metal  
Roofing.



Plant of the  
Pierce Glass  
Co.,  
Hamburg,  
N. Y.  
Roofed and  
Sided with  
Toncan Metal.



Factory of  
North  
Baltimore  
Bottle Glass  
Co.,  
Terre Haute,  
Ind.  
Roofed and  
Sided with  
Toncan Metal.

Plan of the  
Kolboring  
Plate Glass  
Co.,  
Kolboring,  
Pa.  
Roofed with  
Tinman Metal.



Plan of  
Dyestuff of the  
Kolboring  
Plate Glass  
Co.,  
Kolboring,  
Pa.

The Wilson  
Glass Works  
Co.,  
Wilson, Pa.  
Tinman Metal  
Roofing and  
Siding.



"THE BEST GUARANTEE IS THE KNOWLEDGE YOU DON'T  
NEED A GUARANTEE."—Printers' Ink.



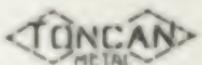
## SECTION THREE

### CATALOG



## SHEETS *and* PRODUCTS

*This Trade Mark* *Stenciled on every Sheet*  
*and Die-Stamped on every Formed Product*



## FLAT SHEETS



BLACK

GALVANIZED

Trade Mark Stenciled on Every Sheet

To meet all the requirements of modern sheet metal **production**. Sheets can be used to the greatest possible advantage. They are easy mounting, simple, provide and insure, shielding the struts and supports of chassis, forming and working sections increasing. In use they are less than **1/16** in. thick and equal to 16 in. both working and working qualities, and occupying the greatest available space.

**Thickness**—page, previous to publication, is shipped in regular cartons with number of sheets in correct groups and other parts marked. See our illustrated table of weights for loss. See page 46.

Weights—allowance may be computed by the following areas:

Thickness—1/16 in. Weight—14 lb. to 48" wide  
Black—16 to 48 in. Width—14" to 48" wide  
Galv.—16 to 48 in. Width—14" to 48" wide  
Galv.—16 to 48 in. Width—14" to 48" wide  
Black and Galvanized. Length—100" long or less.

Buy sheet metal **TONCAN** Trade Mark. Always in stock.

We are importers and sole distributors.

SEE YOUR FOBBER



## ROOFING

CORRUGATED, PAINTED OR GALVANIZED



### 2 1/2 INCH CORRUGATED SHEETS

5 $\frac{1}{8}$  in. deep, 26 in. wide.

All gauges 16 and lighter, 5, 6, 7, 8, 9, 10, 11 and 12 feet long.

### 2-INCH CORRUGATED SHEETS

4 $\frac{1}{2}$  in. deep, 26 in. wide.

Gauges 16 and lighter, 5, 6, 7, 8, 9 and 10 feet long.

### 1 1/4-INCH CORRUGATED SHEETS

3 $\frac{1}{8}$  in. deep, 25 in. wide.

All gauges 22 and lighter, 5, 6, 7, 8, 9 and 10 feet long.



### 3-INCH CRIMP SHEET

Gauges 24 and lighter.

Sheets of any length crimped crossways up to 26 in. wide.



This cut shows size of crimp.

**TONCAN** Sheets are not furnished lighter than No. 28 Gauge Galvanized; No. 26 Gauge Plain or Painted.

### ASK YOUR JOBBER

See Page 68 for Directions "How to Order **TONCAN** Roofing"



## ROOFING

PAINTED OR GALVANIZED



ROLL ROOFING, ALL STYLES



PRESSED STANDING SEAM ROOFING

5, 6, 7, 8, 9 or 10 Foot lengths



CIRCRIMPED ROOFING

Made in 2 and 3 1/2

5, 6, 7, 8, 9, 10, 11 or 12 Ft. long. Lays flat or curled to oxidize.

The above are not furnished lighter than No. 28 Gauge and  
varied. No. 24 Gauge Painted or Painted.

ASK YOUR JOKEE

See Page 58 for Directions "How to Order Toncan Roofing."



## SIDING

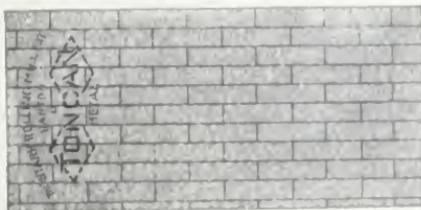
PAINTED OR GALVANIZED



### WEATHER BOARD SIDING

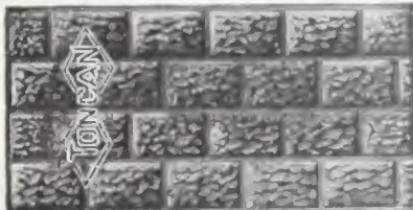
Sheets 24 x 96 inches

Boards 4 inches wide



### IMITATION PRESSED BRICK SIDING

Sheets, 28 x 60 inches.



### IMITATION ROCK FACED STONE SIDING

Sheets, 28 x 60 inches.

Imitation Rock Faced Brick Siding also furnished in same size sheets.

The above are not furnished lighter than No. 28 Gauge Galvanized; No. 26 Gauge in Plain or Painted.

**ASK YOUR JOBBER**

See Page 68 for Directions "How to Order **TONCAN** Roofing"



## CURVED CORRUGATED SHEETS

PAINTED OR GALVANIZED



Up to gauge 25 to 30 (bottom) rolled in accordance with your required gauge and height up to 10 to 12 feet overall.



Same application of curved corrugated sheet as Run Sheets for walls, etc., with concave facing sheet sheet.

## CORRUGATED SHEETS FOR AWNINGS

Single or Double Faced

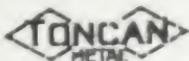
We also offer corrugated sheet single or double faced, for awnings. It is common to have these two incorporated.



Single Faced Corrugated Sheet for Awnings

The prices are as follows: Single faced 25c to 30c. Double faced 30c to 35c. Prices are FOB.

AM. FIVE DOLLARS



## EAVES TROUGH

FILLS A LONG FELT WANT

PERMANENT      DURABLE      ECONOMICAL



Cut of Slip Joint

Single or Double Bead, Slip Joint or Lap Joint; in ft. lengths

### LIST PRICES

Adopted Aug. 35, 1912

#### 28 Gauge

Size	Single Bead		Double Bead	
	Ship Joint Per Ft.	Lap Joint Per Ft.	Ship Joint Per Ft.	Lap Joint Per Ft.
3 in.	.80	.16	.80	.15
3 1/2 in.		.17		.16
4 in.		.19		.18
4 1/2 in.		.21		.20
5 in.		.22		.21
6 in.		.27		.25
7 in.		.32		.30
8 in.		.36		.34

Prices for heavier than No. 28 Gauge quoted on application.

The above is not furnished lighter than No. 28 Galvanized.

Look for this Trade  Mark die stamped  
on every length.

### ASK YOUR JOBBER

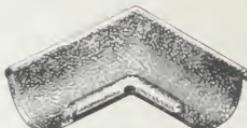
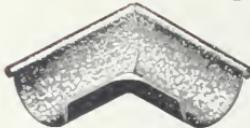
Remember!—No  Sheet is made lighter than full weight  
No. 28 Gauge, so that all  Eaves Trough is heavy and strong.  
This in itself is of the highest importance.



## MITERS AND DROPS GALVANIZED

### Inside or Outside Miters

Slip or Lap Joint  
Single or Double Bead



When ordering Miters, specify whether inside or outside, and whether right or left hand; otherwise half of each will be shipped.

### LIST PRICES—ONE-PIECE EAVES TROUGH MITERS

#### Single Bead, Lap Joint, Per Doz.

Size, inches	.3 1/2	4	4 1/2	5	6	7	8
28 Gauge	\$3.25	3.50	4.00	4.00	5.00	6.50	8.00
26 Gauge	4.00	4.25	4.75	4.75	6.00	8.00	9.50

#### Single Bead Slip Joint, Per Doz.

Size, inches	.3 1/2	4	4 1/2	5	6	7	8
28 Gauge	\$4.25	4.50	5.00	5.00	6.00	7.50	9.00
26 Gauge	5.00	5.25	5.75	5.75	7.00	9.00	10.50

#### Double Bead, Lap Joint, Per Doz.

Size, inches	.3 1/2	4	4 1/2	5	6	7	8
28 Gauge	\$4.25	4.50	5.00	5.00	6.00	7.50	9.00
26 Gauge	5.00	5.25	5.75	5.75	7.00	9.00	10.50

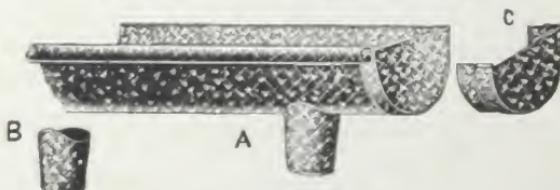
#### Double Bead, Slip Joint, Per Doz.

Size, inches	.3 1/2	4	4 1/2	5	6	7	.8
28 Gauge	\$5.25	5.50	6.00	6.00	7.00	8.50	10.00
26 Gauge	6.00	6.25	6.75	6.75	8.00	10.00	11.50

Two-Piece Miters are special, prices on application.

For other gauges Two-Piece Miters only are furnished, on which net price will be quoted.

## ENDS, DROPS AND CAPS



#### GALVANIZED

All Die-Stamped with  Trade Mark and Maker's Name



## CONDUCTOR PIPES GALVANIZED



PLAIN ROUND



ROUND CORRUGATED



SQUARE CORRUGATED

All sizes from 2 to 6 inches can be nested in one crate.

### LIST PRICES—Adopted Aug 15, 1912

#### 28 Gauge

Size, inches .....	1 1/2	2	2 1/2	3	3 1/2	4	5	6
Plain Round, per ft. ....	\$0.13	.15	.16	.17	.20	.23	.28	.33
Round Corrugated, per ft. ...	.15	...	.17	...	.23	.28	.33	
Square Corrugated, per ft. ...	.17	...	.19	...	.45	.30	...	

#### SQUARE PIPE SIZES

Size, 2 in. Dimensions, 1 3/4 x 2 1/4 in. Size, 4 in. Dimensions, 2 3/4 x 4 1/4 in.  
Size, 3 in. Dimensions, 2 5/8 x 3 3/4 in. Size, 5 in. Dimensions, 3 3/4 x 5 in.

Odd sizes not listed take list of next larger girth.

Heavier than No. 28 gauge and larger than 6 inch will be quoted on application.

Pipe heavier than No. 28 will be shipped in either 8 or 10-foot lengths unless ordered otherwise.

Round Corrugated will always be shipped unless ordered otherwise.

The above is not furnished lighter than No. 28 Gauge.

Look for this Trade  Mark die-stamped  
on every length.

ASK YOUR JOBBER



## ELBOWS, SHOES, ETC. GALVANIZED

Plain, Round or Square Corrugated Elbows and Shoes in all Sizes and Angles



No. 0—30°



No. 1—45°



No. 2—60°



No. 3—75°



No. 4—90°



No. 3 Shoe—75°

PLAIN ROUND

SQUARE CORRUGATED



No. 3—75°



No. 3 Shoe—75°



No. 3—75°



No. 3 Shoe—75°

### LIST PRICE PER DOZEN—Effective Oct. 1st, 1913

Size, inches	2	3	4	5	6
Round Corrugated and Plain Round					
Elbows, No. 28 Gauge	\$4.80	5.76	9.00	17.40	21.00
Round Corrugated and Plain Round					
Shoes, No. 28 Gauge	6.00	7.20	10.80	19.80	24.00
Square Corrugated Elbows, No. 28					
Gauge	7.20	8.40	10.80	16.20	....
Square Corrugated Shoes, No. 28					
Gauge	9.00	10.20	13.20	19.20	....

The above are not furnished lighter than No. 28 Gauge.

### Galvanized Cut-Offs

Size, inches	2	2 1/2	3	4	5	6
Plain Round, 28 Gauge	\$7.00	7.50	8.00	11.00	20.00	24.00
Round Corrugated, 28 Gauge	7.50	....	8.00	11.00	20.00	24.00

Nothing lighter made than full weight No. 28 Gauge.

ASK YOUR JOBBER



## RIDGE ROLL AND V-ANGLE RIDGE CAP

PAINTED OR GALVANIZED

10-Foot Lengths



### ROUND RIDGE ROLL



### V-ANGLE RIDGE CAP

#### LIST PRICE PER LINEAL FOOT

Style.	Diam. Roll.	Width of Apron.	Girth.	Galvanized.	Painted.
Round	1 1/2 in.	2 in.	8 in.	\$0.18	\$0.16
Round	2 in.	2 1/2 in.	10 in.	.21	.19
Round	2 1/2 in.	3 in.	12 in.	.25	.23
Round	3 in.	3 1/2 in.	14 in.	.30	.28
V-Angle	.....	3 in.	6 in.	.15	.13
V-Angle	.....	3 1/2 in.	7 in.	.16	.14
V-Angle	.....	4 in.	8 in.	.18	.16

We can furnish  Corrugated Ridge Roll in 10 ft. lengths. Prices on application.

ASK YOUR JOBBER



## CORRUGATED FLASHING AND CORRUGATED RIDGE ROLL

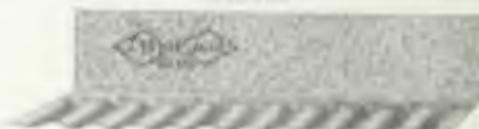
No. 977



### CORRUGATED SIDE WALL FLASHING

Any length up to	126"
Standard Girth	14"

No. 978



### CORRUGATED END WALL FLASHING

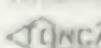
Total length	26"
Covering length	24"
Flat side on wall	3"
Corrugated Area	4"
Total width	12"

No. 979



### 8-INCH CORRUGATED RIDGE ROLL

Total length	28"
Covering length	26"
Diameter of roll	3"
Width of Corrugated Area	4"
Can be Purchased in lengths up to 10 ft. also.	

 Trade Mark Registered on Above

No. 98 is lightest gauge material furnished.

### NET PRICES—CORRUGATED FLASHINGS AND RIDGE ROLL

		Painted.	Galvanized.
28 gauge	Per Linear Foot	\$0.06 1/2	\$0.08 1/2
26 gauge	Per Linear Foot	.07	.07 1/2
24 gauge	Per Linear Foot	.07	.08
22 gauge	Per Linear Foot	.08 1/2	.10
20 gauge	Per Linear Foot	.10	.12
18 gauge	Per Linear Foot	.12	.14
		W. D. Discount.	

## ROOFING AND SIDING

## STANDARD WEIGHTS PER SQUARE

卷之三

You get full weight material when you use



### U. S. STANDARD GAUGE

No. of Gauge.	Thickness in Inches.	Weight Square Foot.	No. of Gauge.	Thickness in Inches.	Weight Square Foot.
Decimals.	Iron.	Steel.	Decimals.	Iron.	Steel.
7-0 <sup>8</sup>	1.2	.5	20.00	20.4	1.7
6-0 <sup>8</sup>	1.5	.46875	18.75	19.125	1.4
5-0 <sup>8</sup>	1.6	.4375	17.50	17.85	1.5
0000	1.3-32	.40625	16.25	16.575	1.6
000	1.8	.375	15.0	15.30	1.7
00	1.32	.34375	13.75	14.025	1.8
0	5.16	.3125	12.50	12.75	1.9
1	9.32	.28125	11.25	11.475	2.0
2	17.64	.25625	10.625	10.8375	2.1
3	1.4	.25	10.0	10.2	2.2
4	15.64	.234375	9.375	9.5625	2.3
5	7.32	.21875	8.75	8.925	2.4
6	13.64	.203125	8.125	8.285	2.5
7	3.16	.1875	7.5	7.65	2.6
8	11.64	.171875	6.875	7.0125	2.7
9	5.32	.15625	6.25	6.375	2.8
10	9.64	.140625	5.625	5.7375	2.9
11	1.8	.125	5	5.1	3.0
12	7.64	.109375	4.375	4.4625	3.1

### Allowable Variation

Owing to the impossibility of rolling sheets to exact weights, an allowable variation is customary. No. 17 and lighter, 2½%; No. 16 and heavier, 5%.

The weight per square foot for iron is applicable to Toncan Metal.

### Maximum Sizes on Sheet and Jobbing Mill Products Applicable to

Width, inches	48	46	44	42	40	38	36	34	32	30	28	26	24
Gauge													
No. 7 and 8	120	120	120	120	120	120	120	120	120	120	120	120	120
No. 9 and 10	168	168	168	168	168	168	168	168	168	168	168	168	168
No. 11 and 12	168	168	168	168	168	168	168	168	168	168	168	168	168
No. 13 and 14	156	156	156	156	156	156	156	156	156	156	156	156	156
No. 15 and 16	156	156	156	156	156	156	156	156	156	156	156	156	156
No. 17 and 18	156	156	156	156	156	156	156	156	156	156	156	156	156
No. 19 and 20	156	156	156	156	156	156	156	156	156	156	156	156	156
No. 21	144	144	144	144	144	144	144	144	144	144	144	144	144
No. 22	144	144	144	144	144	144	144	144	144	144	144	144	144
No. 23 and 24	144	144	144	144	144	144	144	144	144	144	144	144	144
No. 25 and 26	144	144	144	144	144	144	144	144	144	144	144	144	144
No. 27	144	144	144	144	144	144	144	144	144	144	144	144	144
No. 28	144	144	144	144	144	144	144	144	144	144	144	144	144

Above sizes apply to Black and Galvanized except in latter our maximum length is 144 inches.



## NO. OF CORRUGATED SHEETS IN ONE SQUARE

(100 Sq. Ft. No Allowance for Laps)

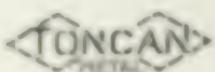
Length of Sheet	100 Sq. Ft. and 5-1/2" Gage	100 Sq. Ft. and 5-1/2" Gage
50 inches	8.283	8.000
72 inches	7.000	6.667
84 inches	6.500	6.111
96 inches	5.769	5.000
108 inches	5.125	4.500
120 inches	4.615	4.000
144 inches	3.640	3.000

Remember—It's just as important to get full gauge roofing as to get full size or count, and ~~rough~~ roofing is always full standard weight and gauge.

## NO. OF SQ. FT. IN ONE CORRUGATED SHEET

(Standard Lengths)

Length of Sheet	100 Sq. Ft. and 5-1/2" Gage	100 Sq. Ft. and 5-1/2" Gage
60 inches	10.471	10.118
72 inches	12.000	11.889
84 inches	11.111	11.000
96 inches	11.222	11.000
108 inches	10.333	10.111
120 inches	9.167	9.000
144 inches	7.640	7.500



## RULES OF MEASUREMENT In Selling Sheet Metal Building Material

All **Roofings, Siding, Ceiling, etc.**, except Galvanized metal, are paid for both sides, unless otherwise ordered.

All **Roofings, Siding and Ceiling** are sold by the square (100 square feet), except Corrugated Iron, which is sold by the square or pound, as preferred.

A square consists of 100 square feet, and is calculated by the following rules of measurement:

**Corrugated Sheets and Imitation Brick.**—The full width and length of sheets, after being corrugated or formed, is calculated.

**V-Crimped, Beaded and Weather Boards.**—The full length of sheets, together with the actual covering width, is calculated.

**Standing Seam Roofing.**—The actual covering width and full length is calculated, whether the sheets are connected by metal locks and stepped in rolls, or separate and stepped in rows.

**Wide Gutters and Valleys.**—The full width and length of material is calculated.

**Nails, Wood Strips, Dry Paint and Ready Mixed Paints** are sold by the pound, gallon or square (the amount generally required to apply one square). They are not included in the price quoted on the Sheet Metal but are charged at separate rates when furnished.

**Edging Roll, Ridge Cap, Corrugated Wood Strips, Corner Boards, Panel Strips, Window and Door Case Coverings, Mouldings, Siding, Barn Trough, Dredge Pipe, etc.** are sold by the linear foot, and are included in quotes quoted on **Roofings and Siding**, but when furnished are charged separately.



## GALVANIZED SHEETS, STANDARD SIZES

#### Average Weight Per Sheet and Per Bundle in Pounds

GAUGES	12				14				16				18				20				
	SIZE OF SHEET	Wt per Sheet	No. Sheets																		
24 x 72	54.97	16.3	3	49.53	15.7	4	31.8	13.9	5	25.5	10.5	6	4.31	2.9	10.9	8	16.9	1.02	2		
26 x 72	58.91	17.7	3	42.6	17.1	4	34.5	15.4	4	28.0	12.5	5	21.5	12.1	6	15.2	1.46	3			
28 x 72	61.14	19.7	2	15.9	1.08	3	37.2	11.0	1	40.7	1.61	5	22.8	1.62	3	37.7	1.58	2			
30 x 72	67.97	11.6	2	19.2	1.18	3	39.8	10.9	1	32.3	1.05	5	24.8	1.49	3	41.1	1.49	3			
36 x 72	81.56	16.7	2	59.1	1.77	3	47.8	14.3	1	38.6	1.13	4	29.9	1.13	3	35.5	1.43	3			
24 x 84	63.44	1.97	2	45.9	1.48	3	37.2	14.9	4	30.5	1.64	5	23.3	1.66	7	16.7	1.68	7			
26 x 84	68.69	1.97	2	49.7	1.49	3	40.9	1.61	4	33.1	1.64	5	25.1	1.21	6	21.2	1.49	7			
28 x 84	71.00	1.18	2	53.1	1.61	3	41.4	1.74	4	35.2	1.47	4	27.1	1.95	5	33.0	1.80	5			
30 x 84	79.20	1.59	2	57.4	1.72	3	46.5	1.49	3	37.7	1.51	4	29.9	1.17	5	24.0	1.19	5			
36 x 84	93.16	1.90	2	68.9	1.38	3	55.8	1.67	3	40.0	1.36	1	34.8	1.66	4	39.4	1.49	3			
24 x 96	72.50	1.45	3	52.5	1.57	3	43.5	5	120	4	34.6	1.18	4	26.3	1.59	8	19.8	1.69	7		
26 x 96	78.53	1.57	2	56.8	1.71	3	46.0	1.78	3	37.4	1.69	3	28.7	1.63	5	23.4	1.66	5			
28 x 96	84.55	1.09	2	61.3	1.84	3	49.6	1.19	3	40.2	1.61	3	30.9	1.52	5	28.0	1.57	5			
30 x 96	90.62	1.81	2	65.6	1.31	2	53.1	1.09	3	43.1	1.72	4	35.1	1.86	3	39.1	1.31	5			
36 x 96	108.75	1.91	2	78.7	1.72	2	67.4	1.97	2	71.8	1.55	3	58.8	1.50	4	54.8	1.60	3			
24 x 120	90.62	181	2	65.6	1.91	3	84.1	1.09	2	43.4	1.29	3	34.1	1.06	6	70.2	1.93	5			
26 x 120	98.15	1.96	2	71.1	1.42	3	57.5	1.74	3	46.7	1.40	3	36.8	1.43	4	56.5	1.49	5			
28 x 120	105.71	2.11	2	70.5	1.53	2	63.0	1.80	3	40.3	1.11	3	38.6	1.52	3	50.8	1.84	3			
30 x 120	113.28	1.11	3	82.0	1.64	2	66.4	1.43	3	73.0	1.55	3	81.1	1.88	3	52.7	1.41	3			
36 x 120	135.94	1.36	1	98.4	1.97	2	79.7	1.7	2	64.7	1.29	2	48.7	1.18	3	42.2	0.68	3			
GAUGES		24				26				27				28				29			
24 x 72	13.9	15.3	11	10.9	1.52	14	10.1	1.61	3	9.4	1.1	15.6	16	8.80	14.8	17	8	15.0	13		
26 x 72	15.10	0	15.0	10	8.8	1.53	14	11.0	1.64	14	10.2	15.9	18	9.34	14.8	18	8	14.5	15		
28 x 72	16.2	1.16	9	12.7	1.52	12	11.8	1.54	12	10.9	1.73	14	14.0	13	16.0	15.1	9	2.18	15		
30 x 72	17.3	3	15.6	9	13.6	1.49	11	15.7	1.62	12	11.7	16.2	16	14.79	16.2	18	9.8	18.0	15		
36 x 72	20.8	1.45	7	16.3	1.47	9	15.2	1.50	19	14.1	15.6	21	14.04	15.11	11	16.0	15	15			
24 x 16	16.2	2	14.6	9	12.7	1.52	12	11.8	1.54	18	10.9	16.0	14	10.98	14.11	13	9	13.87	13		
26 x 84	17.3	1.40	8	14.1	1.51	11	12.8	1.63	12	11.8	16.0	14	10.80	15.00	13	10.0	14.97	13			
28 x 84	18.9	1.51	8	14.8	1.48	10	13.8	1.57	11	12.8	16.5	13	11.74	14.15	13	10.7	14.97	14			
30 x 84	20.9	1.42	7	15.9	1.59	10	14.8	1.48	10	13.7	16.0	13	11.60	12.92	13	11.5	14.97	13			
36 x 84	24.1	1.46	6	19.0	1.52	8	17.7	1.60	9	16.4	1.49	3	14.00	13.41	9	14.9	15.00	13			
24 x 96	18.5	14.8	8	14.5	1.45	10	11.5	1.68	11	12.5	1.50	8	15.0	8	14.00	14.00	10	18.5	15.07		
26 x 96	20.0	0	16.0	8	15.7	1.57	10	14.6	1.46	10	13.1	14.9	11	14.88	15.00	12	11.1	16.00	13		
28 x 96	21.6	1.51	7	16.9	1.52	9	15.7	1.46	10	14.0	14.0	19	13.8	14.11	13	13.5	14.97	13			
30 x 96	23.1	1	16.8	7	18.1	1.45	8	16.9	1.67	10	16.6	16.0	19	14.27	14.44	13	14.1	15.53	13		
36 x 96	27.8	1.66	6	21.8	1.32	7	20.3	1.62	8	18.8	1.50	8	17.53	14.4	9	12.9	15.07	13			
24 x 120	22.1	1.67	7	18.1	1.45	8	16.9	1.62	9	15.6	1.65	10	14.77	14.44	10	13.1	14.97	13			
26 x 120	25.0	1.60	6	19.8	1.57	8	18.3	1.48	8	16.5	1.50	9	16.50	15.00	10	14.3	15.16	13			
28 x 120	27.0	0	18.0	6	21.1	1.48	7	19.7	1.57	8	18.10	14.6	8	18.25	17.51	13	15.5	15.16	13		
30 x 120	28.9	1.45	7	22.7	1.59	7	21.1	1.49	7	19.7	1.56	8	17.37	16.02	13	14.4	14.97	13			
36 x 120	34.7	1	17.3	5	27.2	1.63	6	25.3	1.65	6	23.4	1.64	7	21.56	15.11	7	13.7	15.8	8		



#### AT ALL JOBBERS



## Black Sheets, Standard Sizes. Weights Without Bands

GAUGES	14				16				18				20				22			
	SIZE OF SHEET	Wt per Sheet	Wt per Bundle	Sheets per Bundle	Wt per Sheet	Wt per Bundle	Sheets per Bundle	Wt per Sheet	Wt per Bundle	Sheets per Bundle	Wt per Sheet	Wt per Bundle	Sheets per Bundle	Wt per Sheet	Wt per Bundle	Sheets per Bundle				
24 x 72	37.5	150	4	30.0	150	5	24.0	144	6	18.0	144	8	15.0	150	19					
26 x 72	40.63	162	4	32.4	162	5	26.0	156	6	16.3	146	9	16.3	146	9					
28 x 72	43.8	131	3	35.0	140	4	28.0	110	5	21.0	147	7	17.5	140	8					
30 x 72	46.9	141	3	37.5	150	4	30.0	150	5	22.5	157	7	18.8	150	8					
36 x 72	56.2	169	3	45.0	134	3	36.0	144	4	27.0	135	5	22.5	157	7					
24 x 84	43.8	131	3	35.0	140	4	28.0	140	5	21.0	147	7	17.5	140	8					
26 x 84	47.4	142	3	38.0	152	4	30.3	152	5	22.8	159	7	19.0	152	8					
28 x 84	51.0	153	3	40.8	163	4	32.7	163	5	24.5	147	6	20.4	143	7					
30 x 84	54.7	164	3	43.8	131	3	35.0	140	4	26.3	157	6	21.3	153	7					
36 x 84	65.6	131	2	52.5	157	3	42.0	168	4	31.5	157	5	26.3	157	6					
24 x 96	50.0	150	3	40.0	160	4	32.0	160	5	24.0	144	6	20.0	140	7					
26 x 96	54.2	162	3	43.3	130	3	34.7	139	4	26.0	156	6	21.7	152	7					
28 x 96	58.3	175	3	46.7	140	3	37.3	149	4	28.0	140	5	23.3	140	6					
30 x 96	62.5	125	2	50.0	150	3	40.0	160	4	30.0	150	5	25.0	150	6					
36 x 96	75.0	150	2	60.0	120	2	48.0	144	3	36.0	144	4	30.0	150	5					
24 x 120	62.5	125	2	50.0	150	3	40.0	160	4	30.0	150	5	25.0	150	6					
26 x 120	67.7	135	2	54.2	162	3	43.3	130	3	32.5	162	5	27.1	162	6					
28 x 120	73.0	146	2	58.0	175	3	46.7	140	3	35.0	140	4	29.2	146	5					
30 x 120	78.0	156	2	62.5	125	2	50.0	150	3	37.5	150	4	31.3	156	5					
36 x 120	93.8	187	2	75.0	150	2	60.0	120	2	45.0	135	3	37.5	150	4					
GAUGES	24	26	27	28	29	30														
24 x 72	12.0	144	12	9.0	144	16	8.3	148	18	7.5	150	20	6.0	150	25					
26 x 72	13.0	143	11	9.8	146	15	8.9	143	16	8.1	146	18	5.5	149	23					
28 x 72	14.0	154	11	10.5	147	14	9.6	154	16	9.8	149	17	7.0	147	21					
30 x 72	15.0	130	10	11.3	146	13	10.3	144	14	9.4	150	16	7.5	150	20					
36 x 72	18.0	144	8	13.5	148	11	12.4	148	12	11.3	146	13	9.0	144	16					
24 x 84	14.0	154	11	10.5	147	14	9.7	144	15	8.8	149	17	7.0	147	21					
26 x 84	15.2	132	10	11.4	148	13	10.4	146	14	9.5	152	16	7.6	144	19					
28 x 84	16.3	147	9	12.3	147	12	11.2	146	13	10.2	143	14	8.2	155	19					
30 x 84	17.5	140	8	13.1	144	11	12.0	144	12	10.9	153	14	8.8	149	17					
36 x 84	21.0	147	7	15.8	142	9	14.4	144	10	13.1	144	11	10.5	147	14					
24 x 96	16.0	144	9	12.0	144	12	11.0	143	13	10.0	150	15	8.0	144	18					
26 x 96	17.3	156	9	13.0	143	11	11.9	143	12	10.8	152	14	8.7	147	17					
28 x 96	18.7	149	8	14.0	154	11	12.9	154	12	11.7	152	13	9.3	149	16					
30 x 96	20.0	140	7	15.0	150	10	13.8	151	11	12.5	150	12	10.0	150	15					
36 x 96	24.0	144	6	18.0	144	8	16.5	149	9	15.0	150	10	12.0	144	12					
24 x 101	16.8	151	9	12.6	151	12	11.5	139	12	10.5	147	14	8.8	144	18					
26 x 101	18.2	146	8	13.6	150	11	12.5	150	12	11.4	148	13	8.7	147	17					
28 x 101	19.6	157	8	14.7	147	10	13.5	148	11	12.2	147	12	8.8	147	16					
30 x 101	21.0	147	7	15.7	142	9	14.4	145	10	13.1	145	11	8.8	147	15					
36 x 101	25.2	151	6	18.9	151	8	17.3	156	9	15.7	142	9	8.8	147	14					
24 x 120	20.0	140	7	15.0	150	10	13.8	151	11	12.5	150	12	10.0	150	15					
26 x 120	21.7	152	7	16.3	146	9	14.9	149	10	13.6	149	11	10.9	152	14					
28 x 120	23.3	140	6	17.5	140	8	16.0	144	9	14.6	146	10	11.7	163	14					
30 x 120	25.0	150	6	18.8	150	8	17.2	155	9	15.7	156	10	12.5	150	12					
36 x 120	30.0	150	5	22.5	157	7	20.6	165	8	19.8	150	8	15.0	150	7					

We do not galvanize heavier than 10 gauge.

Any specified weight more than 2 1/2 per cent., gauges 17 and lighter, and 5 per cent., gauges 16 and heavier, light to U. S. Standard Gauge, to be quoted on basis of next lighter gauge.

Items of odd size less than 4,000 pounds cannot be furnished.

NOTE—TONCAN METAL IS NOT FURNISHED LIGHTER THAN NO. 26 GAUGE BLACK AND NO. 28 GAUGE GALVANIZED.



“Is There With the Wear”



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This Text Book and Catalog is a complete compendium of all necessary information in reference to Sheet Metal. Keep it handy for reference.





TÔN CÁM  
METAL